

## Preaward Compliance Review Report for All Applicants and Recipients Requesting EPA Financial Assistance

Note: Read Instructions before completing form.

### I. A. Applicant/Recipient (Name, Address, City, State, Zip Code)

Name: Washoe County Health District  
Address: 1001 E. 9th Street, Building B  
City: Reno  
State: NV: Nevada Zip Code: 89512-2845

B. DUNS No. 073786998

II. Is the applicant currently receiving EPA Assistance? ☒ Yes ☐ No

III. List all civil rights lawsuits and administrative complaints pending against the applicant/recipient that allege discrimination based on race, color, national origin, sex, age, or disability. (Do not include employment complaints not covered by 40 C.F.R. Parts 5 and 7.)

The information concerning administrative complaints is confidential and will not be released, except to note the County, which has in excess of 2,500 employees, potentially has multiple complaints filed with Human Services and NERC or the EEOC pending at any time.

IV. List all civil rights lawsuits and administrative complaints decided against the applicant/recipient within the last year that allege discrimination based on race, color, national origin, sex, age, or disability and enclose a copy of all decisions. Please describe all corrective actions taken. (Do not include employment complaints not covered by 40 C.F.R. Parts 5 and 7.)

No civil rights complaints filed with any administrative agency have been decided against Washoe County within the past 10 years.

V. List all civil rights compliance reviews of the applicant/recipient conducted by any agency within the last two years and enclose a copy of the review and any decisions, orders, or agreements based on the review. Please describe any corrective action taken. (40 C.F.R. § 7.80(c)(3))

No compliance reviews have been conducted by any agency.

VI. Is the applicant requesting EPA assistance for new construction? If no, proceed to VII; if yes, answer (a) and/or (b) below.

☐ Yes ☒ No

a. If the grant is for new construction, will all new facilities or alterations to existing facilities be designed and constructed to be readily accessible to and usable by persons with disabilities? If yes, proceed to VII; if no, proceed to VI(b).

☐ Yes ☐ No

b. If the grant is for new construction and the new facilities or alterations to existing facilities will not be readily accessible to and usable by persons with disabilities, explain how a regulatory exception (40 C.F.R. 7.70) applies.

VII. Does the applicant/recipient provide initial and continuing notice that it does not discriminate on the basis of race, color, national origin, sex, age, or disability in its program or activities? (40 C.F.R. 5.140 and 7.95)

☒ Yes ☐ No

a. Do the methods of notice accommodate those with impaired vision or hearing?

☐ Yes ☒ No

b. Is the notice posted in a prominent place in the applicant's offices or facilities or, for education programs and activities, in appropriate periodicals and other written communications?

☒ Yes ☐ No

c. Does the notice identify a designated civil rights coordinator?

☐ Yes ☒ No

VIII. Does the applicant/recipient maintain demographic data on the race, color, national origin, sex, age, or handicap of the population it serves? (40 C.F.R. 7.85(a))

☒ Yes ☐ No

IX. Does the applicant/recipient have a policy/procedure for providing access to services for persons with limited English proficiency? (40 C.F.R. Part 7, E.O. 13166)

☒ Yes ☐ No

- X. If the applicant is an education program or activity, or has 15 or more employees, has it designated an employee to coordinate its compliance with 40 C.F.R. Parts 5 and 7? Provide the name, title, position, mailing address, e-mail address, fax number, and telephone number of the designated coordinator.**

Yes, Patricia Hurley, Director of Washoe County Human Resources/Labor Relations, 1001 E. 9th Street Bldg A-220, Reno, NV 89512-2845. email: phurley@washoecounty.gov phone: 775-328-2087

- XI. If the applicant is an education program or activity, or has 15 or more employees, has it adopted grievance procedures that assure the prompt and fair resolution of complaints that allege a violation of 40 C.F.R. Parts 5 and 7? Provide a legal citation or Internet Address for, or a copy of, the procedures.**

Yes, Washoe County Human Resources, policies available at [www.washoecounty.gov/humanresources/policies/policiesguidelines.php](http://www.washoecounty.gov/humanresources/policies/policiesguidelines.php)

**For the Applicant/Recipient**

I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law. I assure that I will fully comply with all applicable civil rights statutes and EPA regulations.

A. Signature of Authorized Official

Francisco Vega

B. Title of Authorized Official

District Health Officer

C. Date

03/23/2022

**For the U.S. Environmental Protection Agency**

I have reviewed the information provided by the applicant/recipient and hereby certify that the applicant/recipient has submitted all preaward compliance information required by 40 C.F.R. Parts 5 and 7; that based on the information submitted, this application satisfies the preaward provisions of 40 C.F.R. Parts 5 and 7; and that the applicant has given assurance that it will fully comply with all applicable civil rights statutes and EPA regulations.

A. \*Signature of Authorized EPA Official

B. Title of Authorized Official

C. Date

**\* See Instructions**

Instructions for EPA FORM 4700-4 (Rev. 06/2014)

General. Recipients of Federal financial assistance from the U.S. Environmental Protection Agency must comply with the following statutes and regulations.

Title VI of the Civil Rights Acts of 1964 provides that no person in the United States shall, on the grounds of race, color, or national origin, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving Federal financial assistance. The Act goes on to explain that the statute shall not be construed to authorize action with respect to any employment practice of any employer, employment agency, or labor organization (except where the primary objective of the Federal financial assistance is to provide employment). Section 13 of the 1972 Amendments to the Federal Water Pollution Control Act provides that no person in the United States shall on the ground of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under the Federal Water Pollution Control Act, as amended. Employment discrimination on the basis of sex is prohibited in all such programs or activities. Section 504 of the Rehabilitation Act of 1973 provides that no otherwise qualified individual with a disability in the United States shall solely by reason of disability be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving Federal financial assistance. Employment discrimination on the basis of disability is prohibited in all such programs or activities. The Age Discrimination Act of 1975 provides that no person on the basis of age shall be excluded from participation under any program or activity receiving Federal financial assistance. Employment discrimination is not covered. Age discrimination in employment is prohibited by the Age Discrimination in Employment Act administered by the Equal Employment Opportunity Commission. Title IX of the Education Amendments of 1972 provides that no person in the United States on the basis of sex shall be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity receiving Federal financial assistance. Employment discrimination on the basis of sex is prohibited in all such education programs or activities. Note: an education program or activity is not limited to only those conducted by a formal institution. 40 C.F.R. Part 5 implements Title IX of the Education Amendments of 1972. 40 C.F.R. Part 7 implements Title VI of the Civil Rights Act of 1964, Section 13 of the 1972 Amendments to the Federal Water Pollution Control Act, and Section 504 of The Rehabilitation Act of 1973. The Executive Order 13166 (E.O. 13166) entitled; "Improving Access to Services for Persons with Limited English Proficiency" requires Federal agencies work to ensure that recipients of Federal financial assistance provide meaningful access to their LEP applicants and beneficiaries.

Items "Applicant" means any entity that files an application or unsolicited proposal or otherwise requests EPA assistance. 40 C.F.R. §§ 5.105, 7.25. "Recipient" means any entity, other than applicant, which will actually receive EPA assistance. 40 C.F.R. §§ 5.105, 7.25. "Civil rights lawsuits and administrative complaints" means any lawsuit or administrative complaint alleging discrimination on the basis of race, color, national origin, sex, age, or disability pending or decided against the applicant and/or entity which actually benefits from the grant, but excluding employment complaints not covered by 40 C.F.R. Parts 5 and 7. For example, if a city is the named applicant but the grant will actually benefit the Department of Sewage, civil rights lawsuits involving both the city and the Department of Sewage should be listed. "Civil rights compliance review" means any review assessing the applicant's and/or recipient's compliance with laws prohibiting discrimination on the basis of race, color, national origin, sex, age, or disability. Submit this form with the original and required copies of applications, requests for extensions, requests for increase of funds, etc. Updates of information are all that are required after the initial application submission. If any item is not relevant to the project for which assistance is requested, write "NA" for "Not Applicable." In the event applicant is uncertain about how to answer any questions, EPA program officials should be contacted for clarification. \* Note: Signature appears in the Approval Section of the EPA Comprehensive Administrative Review For Grants/Cooperative Agreements & Continuation/Supplemental Awards form.



# EPA KEY CONTACTS FORM

OMB Number: 2030-0020  
Expiration Date: 06/30/2024

**Authorized Representative:** *Original awards and amendments will be sent to this individual for review and acceptance, unless otherwise indicated.*

<b>Name:</b>	<b>Prefix:</b>	<b>First Name:</b> Kevin	<b>Middle Name:</b>
	<b>Last Name:</b> Dick		<b>Suffix:</b>
<b>Title:</b>	District Health Officer		
<b>Complete Address:</b>			
<b>Street1:</b>	1001 East Ninth St., Bldg B		
<b>Street2:</b>			
<b>City:</b>	Reno	<b>State:</b>	NV: Nevada
<b>Zip / Postal Code:</b>	89512	<b>Country:</b>	USA: UNITED STATES
<b>Phone Number:</b>	775-328-2416	<b>Fax Number:</b>	775-328-3752
<b>E-mail Address:</b>	kdick@washoecounty.gov		

**Payee:** *Individual authorized to accept payments.*

<b>Name:</b>	<b>Prefix:</b>	<b>First Name:</b> Anna	<b>Middle Name:</b>
	<b>Last Name:</b> Heenan		<b>Suffix:</b>
<b>Title:</b>	Administrative Health Services Officer		
<b>Complete Address:</b>			
<b>Street1:</b>	1001 East Ninth St., Bldg B		
<b>Street2:</b>			
<b>City:</b>	Reno	<b>State:</b>	NV: Nevada
<b>Zip / Postal Code:</b>	89512	<b>Country:</b>	USA: UNITED STATES
<b>Phone Number:</b>	775-328-2417	<b>Fax Number:</b>	775-328-3752
<b>E-mail Address:</b>	aheenan@washoecounty.gov		

**Administrative Contact:** *Individual from Sponsored Programs Office to contact concerning administrative matters (i.e., indirect cost rate computation, rebudgeting requests etc).*

<b>Name:</b>	<b>Prefix:</b>	<b>First Name:</b> Kristen	<b>Middle Name:</b>
	<b>Last Name:</b> Palmer		<b>Suffix:</b>
<b>Title:</b>	Fiscal Compliance Officer		
<b>Complete Address:</b>			
<b>Street1:</b>	1001 East Ninth St., Bldg B		
<b>Street2:</b>			
<b>City:</b>	Reno	<b>State:</b>	NV: Nevada
<b>Zip / Postal Code:</b>	89512	<b>Country:</b>	USA: UNITED STATES
<b>Phone Number:</b>	775-328-2419	<b>Fax Number:</b>	775-328-3752
<b>E-mail Address:</b>	kpalmer@washoecounty.gov		

# EPA KEY CONTACTS FORM

**Project Manager:** *Individual responsible for the technical completion of the proposed work.*

**Name:** **Prefix:**  **First Name:**  **Middle Name:**

**Last Name:**  **Suffix:**

**Title:**

**Complete Address:**

**Street1:**

**Street2:**

**City:**

**State:**

**Zip / Postal Code:**

**Country:**

**Phone Number:**

**Fax Number:**

**E-mail Address:**

## Other Attachment File(s)

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\* Mandatory Other Attachment Filename:

Add Mandatory Other Attachment

Delete Mandatory Other Attachment

View Mandatory Other Attachment

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To add more "Other Attachment" attachments, please use the attachment buttons below.

Add Optional Other Attachment

Delete Optional Other Attachment

View Optional Other Attachment

# BUDGET INFORMATION - Non-Construction Programs

OMB Number: 4040-0006  
Expiration Date: 02/28/2022

## SECTION A - BUDGET SUMMARY

Grant Program Function or Activity (a)	Catalog of Federal Domestic Assistance Number (b)	Estimated Unobligated Funds		New or Revised Budget		
		Federal (c)	Non-Federal (d)	Federal (e)	Non-Federal (f)	Total (g)
1. <div></div>	<div></div>	\$ <div></div>	\$ <div></div>	\$ <div></div>	\$ <div></div>	\$ <div></div>
2. <div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>
3. <div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>
4. <div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>
5. Totals		\$ <div></div>	\$ <div></div>	\$ <div></div>	\$ <div></div>	\$ <div></div>

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# SECTION B - BUDGET CATEGORIES

6. Object Class Categories	GRANT PROGRAM, FUNCTION OR ACTIVITY				Total (5)
	(1)	(2)	(3)	(4)	
	N/A				
a. Personnel	\$ 0.00	\$	\$	\$	\$ 0.00
b. Fringe Benefits	0.00				0.00
c. Travel	0.00				0.00
d. Equipment	132,439.00				132,439.00
e. Supplies	13,718.00				13,718.00
f. Contractual	65,484.00				65,484.00
g. Construction	0.00				0.00
h. Other	1,563.00				1,563.00
i. Total Direct Charges (sum of 6a-6h)	213,204.00				\$ 213,204.00
j. Indirect Charges	0.00				\$ 0.00
k. TOTALS (sum of 6i and 6j)	\$ 213,204.00	\$	\$	\$	\$ 213,204.00
7. Program Income	\$ 0.00	\$	\$	\$	\$ 0.00

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SECTION C - NON-FEDERAL RESOURCES				
(a) Grant Program	(b) Applicant	(c) State	(d) Other Sources	(e)TOTALS
8. <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>
9. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
10. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
11. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
12. TOTAL (sum of lines 8-11)	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>

SECTION D - FORECASTED CASH NEEDS					
	Total for 1st Year	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
13. Federal	\$ <input type="text" value="213,204.00"/>	\$ <input type="text" value="21,504.00"/>	\$ <input type="text" value="0.00"/>	\$ <input type="text" value="85,730.00"/>	\$ <input type="text" value="105,970.00"/>
14. Non-Federal	\$ <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
15. TOTAL (sum of lines 13 and 14)	\$ <input type="text" value="213,204.00"/>	\$ <input type="text" value="21,504.00"/>	\$ <input type="text" value="0.00"/>	\$ <input type="text" value="85,730.00"/>	\$ <input type="text" value="105,970.00"/>

SECTION E - BUDGET ESTIMATES OF FEDERAL FUNDS NEEDED FOR BALANCE OF THE PROJECT				
(a) Grant Program	FUTURE FUNDING PERIODS (YEARS)			
	(b)First	(c) Second	(d) Third	(e) Fourth
16. <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>
17. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
18. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
19. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
20. TOTAL (sum of lines 16 - 19)	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>

SECTION F - OTHER BUDGET INFORMATION	
21. Direct Charges: <input type="text" value="\$213,204.00"/>	22. Indirect Charges: <input type="text" value="\$0.00"/>
23. Remarks: <input type="text"/>	

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### Application for Federal Assistance SF-424

\* 1. Type of Submission:

- ☐ Preapplication  
☒ Application  
☐ Changed/Corrected Application

\* 2. Type of Application:

- ☒ New  
☐ Continuation  
☐ Revision

\* If Revision, select appropriate letter(s):

\* Other (Specify):

\* 3. Date Received:

03/23/2022

4. Applicant Identifier:

5a. Federal Entity Identifier:

5b. Federal Award Identifier:

#### State Use Only:

6. Date Received by State:

7. State Application Identifier:

Nevada

#### 8. APPLICANT INFORMATION:

\* a. Legal Name:

Washoe County Health District

\* b. Employer/Taxpayer Identification Number (EIN/TIN):

88-6000138

\* c. Organizational DUNS:

0737869980000

#### d. Address:

\* Street1:

1001 East Ninth St., Bldg B

Street2:

\* City:

Reno

County/Parish:

Washoe County

\* State:

NV: Nevada

Province:

\* Country:

USA: UNITED STATES

\* Zip / Postal Code:

89512-2845

#### e. Organizational Unit:

Department Name:

Washoe County Health District

Division Name:

Air Quality Management Divisio

#### f. Name and contact information of person to be contacted on matters involving this application:

Prefix:

\* First Name:

Francisco

Middle Name:

\* Last Name:

Vega

Suffix:

Title: Director, Air Quality Management Division

Organizational Affiliation:

\* Telephone Number: 775-784-7211

Fax Number: 775-784-7225

\* Email: fvega@washoecounty.gov

## Application for Federal Assistance SF-424

### \* 9. Type of Applicant 1: Select Applicant Type:

B: County Government

### Type of Applicant 2: Select Applicant Type:

D: Special District Government

### Type of Applicant 3: Select Applicant Type:

\* Other (specify):

### \* 10. Name of Federal Agency:

Environmental Protection Agency

### 11. Catalog of Federal Domestic Assistance Number:

66.034

### CFDA Title:

Surveys, Studies, Research, Investigations, Demonstrations, and Special Purpose Activities  
Relating to the Clean Air Act

### \* 12. Funding Opportunity Number:

EPA-OAR-OAQPS-22-01

### \* Title:

Enhanced Air Quality Monitoring for Communities

### 13. Competition Identification Number:

Title:

### 14. Areas Affected by Project (Cities, Counties, States, etc.):

Add Attachment

Delete Attachment

View Attachment

### \* 15. Descriptive Title of Applicant's Project:

Establishment of a State and Local Air Monitoring Station (SLAMS) in the community of Verdi,  
Nevada.

Attach supporting documents as specified in agency instructions.

Add Attachments

Delete Attachments

View Attachments

**Application for Federal Assistance SF-424****16. Congressional Districts Of:**

\* a. Applicant NV-002

\* b. Program/Project NV-002

Attach an additional list of Program/Project Congressional Districts if needed.

Add Attachment

Delete Attachment

View Attachment

**17. Proposed Project:**

\* a. Start Date: 10/01/2022

\* b. End Date: 12/31/2023

**18. Estimated Funding (\$):**

* a. Federal	213,204.00
* b. Applicant	0.00
* c. State	0.00
* d. Local	0.00
* e. Other	0.00
* f. Program Income	0.00
* g. TOTAL	213,204.00

**\* 19. Is Application Subject to Review By State Under Executive Order 12372 Process?**

- ☒ a. This application was made available to the State under the Executive Order 12372 Process for review on 03/08/2022 .
- ☐ b. Program is subject to E.O. 12372 but has not been selected by the State for review.
- ☐ c. Program is not covered by E.O. 12372.

**\* 20. Is the Applicant Delinquent On Any Federal Debt? (If "Yes," provide explanation in attachment.)**☐ Yes ☒ No

If "Yes", provide explanation and attach

Add Attachment

Delete Attachment

View Attachment

**21. \*By signing this application, I certify (1) to the statements contained in the list of certifications\*\* and (2) that the statements herein are true, complete and accurate to the best of my knowledge. I also provide the required assurances\*\* and agree to comply with any resulting terms if I accept an award. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties. (U.S. Code, Title 218, Section 1001)**

☒ \*\* I AGREE

\*\* The list of certifications and assurances, or an internet site where you may obtain this list, is contained in the announcement or agency specific instructions.

**Authorized Representative:**

Prefix:  \* First Name: Kevin

Middle Name:

\* Last Name: Dick

Suffix:

\* Title: District Health Officer

\* Telephone Number: 775-328-2415 Fax Number: 775-328-3752

\* Email: kdick@washoecounty.gov

\* Signature of Authorized Representative: Francisco Vega \* Date Signed: 03/23/2022

## Project Narrative File(s)

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\* **Mandatory Project Narrative File Filename:** 1240-Project Narrative (Cover Page and Workplan).pdf

Add Mandatory Project Narrative File

Delete Mandatory Project Narrative File

View Mandatory Project Narrative File

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To add more Project Narrative File attachments, please use the attachment buttons below.

Add Optional Project Narrative File

Delete Optional Project Narrative File

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The AQMD operates and maintains an ambient air monitoring network in accordance with 40 CFR 50 and 58. Quality Assurance Project Plans (QAPPs) and Quality Management Plans (QMPs) are prepared in accordance with 40 CFR 50 and 58 and were most recently approved by EPA in 2019. The QAPP identifies each staff's responsibilities to ensure separation and redundancy which results in defensible air monitoring data. It also includes a hierarchy of data review and approval, initial and continuing training requirements, and standard operating procedures.

The Verdi site will initially be classified as Special Purpose Monitoring (SPM) in AQS. A request to reclassify the site to a State and Local Monitoring Station (SLAMS) will be submitted to EPA within 18 months after data begin to be submitted to AQS as an SPM. The request will be prepared in accordance with 40 CFR 58.14.

EPA annually reviews two plans/reports as an additional check on the AQMD air monitoring program - the Annual Network Plan<sup>1</sup> and the Air Quality Trends Report.<sup>2</sup> These are both required per 40 CFR 58 and/or the QAPP.

The AQMD participates in EPA's Technical System Audit (TSA) program with the three most recent TSAs completed in 2013, 2016, and 2019. AQMD prepares a Corrective Action Plan (CAP) to address findings from the TSA. The CAP includes specific details and timelines to address each TSA finding. The next TSA is anticipated to be conducted in 2023.

These checks and balances will ensure that the Verdi monitoring station will meet the project's objectives. It will also meet the Request for Applications goals to enhance air quality monitoring including building capacity and knowledge of local-scale, real-time air quality; measuring levels of PM and ozone pollution; collecting data in situations where there is persistent and complex air pollution (i.e., wildfires); advancing air monitoring system resiliency, and strengthening community partnerships.

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<sup>1</sup> <https://www.washoecounty.gov/health/programs-and-services/air-quality/Monitoring.php>

<sup>2</sup> <https://www.washoecounty.gov/health/programs-and-services/air-quality/air-quality-reports-and-data.php>

Title:	Division Director
Name:	Francisco Vega, P.E.
Air Quality Management Experience:	Nevada Division of Environmental Protection Carson City, NV
	Nevada Cement Company Fernley, NV
	NV Energy Reno, NV
	Washoe County Health District, Air Quality Management Division Reno, NV
Air Monitoring Experience:	PM filter management; Instrument operation, maintenance, calibration, troubleshooting, and repair; Internal audits; Data review and certification; Meteorological data collection and management, Met and ambient monitoring project management.
Education:	BS - Chemical Engineering, Minor - Mathematics, Chemistry University of Nevada
	Master of Business Administration University of Nevada, Reno

Title:	Air Quality Supervisor
Name:	Daniel Inouye
Air Quality Management Experience:	Fresno County Air Pollution Control District Fresno, CA
	Ventura County Air Pollution Control District Ventura, CA
	Washoe County Health District, Air Quality Management Division Reno, NV
Air Monitoring Experience:	Budget and inventory management; QAPP development; Network evaluation through ANPs and Network Assessments; Establish and discontinue SLAMS/NCore sites; Data review and certification; Exceptional events; Technical System Audits with EPA, Traceability management; Instrument operation, maintenance, calibration, troubleshooting, and repair; Internal audits, PM lab operation and management; Mentor and train new personnel.
Education:	BA - Geography, Minor - Mathematics California State University, Fresno
	MS - Land Use Planning University of Nevada, Reno

Title:	Senior Air Quality Specialist
Name:	Daniel Timmons
Air Quality Management Experience:	Nevada Division of Environmental Protection Carson City, NV
	Washoe County Health District, Air Quality Management Division Reno, NV
Air Monitoring Experience:	Instrument operation, maintenance, calibration, troubleshooting, and repair; Internal audits, PM lab operation and management; QAPP development; Data review and certification; Exceptional events; Technical System Audits with EPA, Traceability management; Budget, inventory, and procurement management; Mentor and train new personnel; Establish and discontinue SLAMS/NCore sites; Network evaluation through ANPs and Network Assessments.
Education:	BA - Criminal Justice University of Nevada, Reno

Title:	Senior Air Quality Specialist
Name:	Craig Petersen
Air Quality Management Experience:	Berry-Hinckley Industries Reno, NV
	Mactec Engineering and Consulting Carson City, NV
	Washoe County Health District, Air Quality Management Division Reno, NV
Air Monitoring Experience:	Instrument operation, maintenance, calibration, troubleshooting, and repair; Internal audits, PM lab operation and management; QA management; QAPP development; Data review and certification; Exceptional events; Technical System Audits with EPA, Traceability management; Budget, inventory, and procurement management; Mentor and train new personnel; Establish and discontinue SLAMS/NCore sites; Network evaluation through ANPs and Network Assessments.
Education:	BS - Environmental and Natural Resource Science, Minor - Chemistry University of Nevada, Reno

Title:	Air Quality Specialist
Name:	Michael Crawford
Air Quality Management Experience:	California Air Resources Board Bakersfield, CA
	Arizona Department of Environmental Quality Phoenix, AZ
	Washoe County Health District, Air Quality Management Division Reno, NV
Air Monitoring Experience:	Instrument operation, maintenance, calibration, troubleshooting, and repair; Internal audits, PM lab operation and management; QAPP development; Data review and certification; Exceptional events; Technical System Audits with EPA, Traceability management; Budget, inventory, and procurement management; Mentor and train new personnel; Establish and discontinue SLAMS/NCore sites; Network evaluation through ANPs and Network Assessments; Network quality improvement through unique solutions.
Education:	AS - Electronics Bakersfield College
	BS - Business Management California State University, Bakersfield

Title:	Air Quality Specialist
Name:	Brendan Schnieder
Air Quality Management Experience:	Washoe County Health District, Air Quality Management Division Reno, NV
Air Monitoring Experience:	Data management, review, validation, and certification; Exceptional events; PM lab operation and management; QAPP development; Technical System Audits with EPA, Mentor and train new personnel; Establish and discontinue SLAMS/NCore sites; Network evaluation through ANPs and Network Assessments; Mitigation plan development.
Education:	BS - Biology University of Nevada, Reno

Title:	Air Quality Specialist Trainee
Name:	Matthew McCarthy
Air Quality Management Experience:	Washoe County Health District, Air Quality Management Division Reno, NV
Air Monitoring Experience:	Instrument operation, maintenance, calibration, troubleshooting, and repair; Internal audits, PM lab operation and management; QAPP development; Data review; Data certification; Inventory management; Establish and discontinue SLAMS/NCore sites.
Education:	BS - Mechanical Engineering University of Nevada, Reno



## 088-GP 04 Intergovernmental Review of Federal Programs

Single Point of Contact (SPoC)

Thank you for contacting the Office of Grant Procurement, Coordination and Management (Grant Office) which functions as the state's Single Point of Contact (SPoC) for the Executive Order (E.O.) 12372 Intergovernmental Review Program consultation process.

1. Please complete the information below and email the form to [grants@admin.nv.gov](mailto:grants@admin.nv.gov).
2. The Grant Office will reply within five working days of receipt of notification.
3. To support tracking of approved/nonapproved funds for Nevada, notify the Grant Office of the results of this proposal/application by forwarding a copy of the document to [grants@admin.nv.gov](mailto:grants@admin.nv.gov).

<input type="checkbox"/> Check if state agency	New Grant <input checked="" type="radio"/>	Existing Grant <input type="radio"/>
Name of Applicant Entity: Washoe County Health District, Air Quality Management Division		
Requestor's Information: Francisco Vega		
Name		
Email <a href="mailto:fvega@washoecounty.gov">fvega@washoecounty.gov</a>		Phone (775) 784-7211
Funding Agency U.S. Environmental Protection Agency		
Funding Opportunity # EPA-OAR-OAQPS-22-01	Code of Federal Domestic Assistance (CFDA) #	66.034
Title of Federal Program EPA - Enhanced Air Quality Monitoring for Communities		
Proposal due date 03/25/2022	Estimated Dollar Amount of Application	\$ 215,000
Required Match N/A	Formula or Competitive	Competitive
Award Ceiling Amount (\$) \$ 500,000		
Summary of Proposed Project (4,000 characters max)		
The Washoe County Health District, Air Quality Management Division's (AQMD) Planning Program submits this application under the U.S. Environmental Protection Agency (EPA), Enhanced Air Quality Monitoring for Communities. If successful, this grant will allow the AQMD to construct and establish a new monitoring network in Northwest Reno.		
Region Impacted.	Washoe Region	
Expected start/award date	11/01/2022	

### For Grant Office Use Only (Not selected/selected assign SAI#)

- ☒ Not Selected for Review SAI # 2022-096
- ☐ Selected for Review Submit full application by:
- ☐ Noncompliant due to
- ☐ Not Subject to E.O. 12372

This Workspace form is one of the forms you need to complete prior to submitting your Application Package. This form can be completed in its entirety offline using Adobe Reader. You can save your form by clicking the "Save" button and see any errors by clicking the "Check For Errors" button. In-progress and completed forms can be uploaded at any time to Grants.gov using the Workspace feature.

When you open a form, required fields are highlighted in yellow with a red border. Optional fields and completed fields are displayed in white. If you enter invalid or incomplete information in a field, you will receive an error message. Additional instructions and FAQs about the Application Package can be found in the Grants.gov Applicants tab.

**OPPORTUNITY & PACKAGE DETAILS:**

Opportunity Number:	EPA-OAR-OAQPS-22-01
Opportunity Title:	Enhanced Air Quality Monitoring for Communities
Opportunity Package ID:	PKG00270834
CFDA Number:	66.034
CFDA Description:	Surveys, Studies, Research, Investigations, Demonstrations, and Special Purpose Activities Relating to the Clean Air Act
Competition ID:	
Competition Title:	
Opening Date:	12/13/2021
Closing Date:	03/25/2022
Agency:	Environmental Protection Agency
Contact Information:	Tim Roberts EPA's Office of Air and Radiation AirMonitoring@epa.gov

**APPLICANT & WORKSPACE DETAILS:**

Workspace ID:	WS00850689
Application Filing Name:	WCAQMD FY22-23 Enhanced AQ Mon. Grant
DUNS:	0737869980000
Organization:	WASHOE, COUNTY OF
Form Name:	Application for Federal Assistance (SF-424)
Form Version:	3.0
Requirement:	Mandatory
Download Date/Time:	Mar 18, 2022 05:33:36 PM EDT
Form State:	No Errors

**FORM ACTIONS:**

Application for Federal Assistance SF-424		
<b>* 1. Type of Submission:</b> <input type="checkbox"/> Preapplication <input checked="" type="checkbox"/> Application <input type="checkbox"/> Changed/Corrected Application		
<b>* 2. Type of Application:</b> <input checked="" type="checkbox"/> New <input type="checkbox"/> Continuation <input type="checkbox"/> Revision		
<b>* If Revision, select appropriate letter(s):</b> <input type="text"/> <b>* Other (Specify):</b> <input type="text"/>		
<b>* 3. Date Received:</b> Completed by Grants.gov upon submission.		<b>4. Applicant Identifier:</b> <input type="text"/>
<b>5a. Federal Entity Identifier:</b> <input type="text"/>		<b>5b. Federal Award Identifier:</b> <input type="text"/>
<b>State Use Only:</b>		
<b>6. Date Received by State:</b> <input type="text"/>		<b>7. State Application Identifier:</b> Nevada
<b>8. APPLICANT INFORMATION:</b>		
<b>* a. Legal Name:</b> Washoe County Health District		
<b>* b. Employer/Taxpayer Identification Number (EIN/TIN):</b> 88-6000138		<b>* c. Organizational DUNS:</b> 0737869980000
<b>d. Address:</b>		
<b>* Street1:</b> 1001 East Ninth St., Bldg B		
<b>Street2:</b> <input type="text"/>		
<b>* City:</b> Reno		
<b>County/Parish:</b> Washoe County		
<b>* State:</b> NV: Nevada		
<b>Province:</b> <input type="text"/>		
<b>* Country:</b> USA: UNITED STATES		
<b>* Zip / Postal Code:</b> 89512-2845		
<b>e. Organizational Unit:</b>		
<b>Department Name:</b> Washoe County Health District		<b>Division Name:</b> Air Quality Management Divisio
<b>f. Name and contact information of person to be contacted on matters involving this application:</b>		
<b>Prefix:</b> <input type="text"/>		<b>* First Name:</b> Francisco
<b>Middle Name:</b> <input type="text"/>		
<b>* Last Name:</b> Vega		
<b>Suffix:</b> <input type="text"/>		
<b>Title:</b> Director, Air Quality Management Division		
<b>Organizational Affiliation:</b> <input type="text"/>		
<b>* Telephone Number:</b> 775-784-7211		<b>Fax Number:</b> 775-784-7225
<b>* Email:</b> fvega@washoecounty.gov		

## Application for Federal Assistance SF-424

### \* 9. Type of Applicant 1: Select Applicant Type:

B: County Government

### Type of Applicant 2: Select Applicant Type:

D: Special District Government

### Type of Applicant 3: Select Applicant Type:

\* Other (specify):

### \* 10. Name of Federal Agency:

Environmental Protection Agency

### 11. Catalog of Federal Domestic Assistance Number:

66.034

### CFDA Title:

Surveys, Studies, Research, Investigations, Demonstrations, and Special Purpose Activities  
Relating to the Clean Air Act

### \* 12. Funding Opportunity Number:

EPA-OAR-OAQPS-22-01

### \* Title:

Enhanced Air Quality Monitoring for Communities

### 13. Competition Identification Number:

### Title:

### 14. Areas Affected by Project (Cities, Counties, States, etc.):

Add Attachment

Delete Attachment

View Attachment

### \* 15. Descriptive Title of Applicant's Project:

Air Quality Management - Enhanced Air Quality Monitoring for Communities

Attach supporting documents as specified in agency instructions.

Add Attachments

Delete Attachments

View Attachments

**Application for Federal Assistance SF-424****16. Congressional Districts Of:**

\* a. Applicant

NV-002

\* b. Program/Project

NV-002

Attach an additional list of Program/Project Congressional Districts if needed.

Add Attachment

Delete Attachment

View Attachment

**17. Proposed Project:**

\* a. Start Date:

11/01/2022

\* b. End Date:

11/01/2025

**18. Estimated Funding (\$):**

\* a. Federal

213,204.00

\* b. Applicant

0.00

\* c. State

0.00

\* d. Local

0.00

\* e. Other

0.00

\* f. Program Income

0.00

\* g. TOTAL

213,204.00

**\* 19. Is Application Subject to Review By State Under Executive Order 12372 Process?**☒ a. This application was made available to the State under the Executive Order 12372 Process for review on

03/08/2022

☐ b. Program is subject to E.O. 12372 but has not been selected by the State for review.☐ c. Program is not covered by E.O. 12372.**\* 20. Is the Applicant Delinquent On Any Federal Debt? (If "Yes," provide explanation in attachment.)**☐ Yes☒ No

If "Yes", provide explanation and attach

Add Attachment

Delete Attachment

View Attachment

21. \*By signing this application, I certify (1) to the statements contained in the list of certifications\*\* and (2) that the statements herein are true, complete and accurate to the best of my knowledge. I also provide the required assurances\*\* and agree to comply with any resulting terms if I accept an award. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties. (U.S. Code, Title 218, Section 1001)

☒ \*\* I AGREE

\*\* The list of certifications and assurances, or an internet site where you may obtain this list, is contained in the announcement or agency specific instructions.

**Authorized Representative:**

Prefix:

Mr.

\* First Name:

Kevin

Middle Name:

\* Last Name:

Dick

Suffix:

\* Title:

District Health Officer

\* Telephone Number:

775-328-2415

Fax Number:

775-328-3752

\* Email:

kdick@washoecounty.gov

\* Signature of Authorized Representative:

Completed by Grants.gov upon submission.

\* Date Signed:

Completed by Grants.gov upon submission.

This Workspace form is one of the forms you need to complete prior to submitting your Application Package. This form can be completed in its entirety offline using Adobe Reader. You can save your form by clicking the "Save" button and see any errors by clicking the "Check For Errors" button. In-progress and completed forms can be uploaded at any time to Grants.gov using the Workspace feature.

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Application Filing Name:	WCAQMD FY22-23 Enhanced AQ Mon. Grant
DUNS:	0737869980000
Organization:	WASHOE, COUNTY OF
Form Name:	EPA Form 4700-4
Form Version:	3.0
Requirement:	Mandatory
Download Date/Time:	Mar 18, 2022 05:46:08 PM EDT
Form State:	No Errors

**FORM ACTIONS:**

## Preaward Compliance Review Report for All Applicants and Recipients Requesting EPA Financial Assistance

Note: Read Instructions before completing form.

### I. A. Applicant/Recipient (Name, Address, City, State, Zip Code)

Name: Washoe County Health District  
Address: 1001 E. 9th Street, Building B  
City: Reno  
State: NV: Nevada Zip Code: 89512-2845

B. DUNS No. 073786998

II. Is the applicant currently receiving EPA Assistance? ☒ Yes ☐ No

III. List all civil rights lawsuits and administrative complaints pending against the applicant/recipient that allege discrimination based on race, color, national origin, sex, age, or disability. (Do not include employment complaints not covered by 40 C.F.R. Parts 5 and 7.)

The information concerning administrative complaints is confidential and will not be released, except to note the County, which has in excess of 2,500 employees, potentially has multiple complaints filed with Human Services and NERC or the EEOC pending at any time.

IV. List all civil rights lawsuits and administrative complaints decided against the applicant/recipient within the last year that allege discrimination based on race, color, national origin, sex, age, or disability and enclose a copy of all decisions. Please describe all corrective actions taken. (Do not include employment complaints not covered by 40 C.F.R. Parts 5 and 7.)

No civil rights complaints filed with any administrative agency have been decided against Washoe County within the past 10 years.

V. List all civil rights compliance reviews of the applicant/recipient conducted by any agency within the last two years and enclose a copy of the review and any decisions, orders, or agreements based on the review. Please describe any corrective action taken. (40 C.F.R. § 7.80(c)(3))

No compliance reviews have been conducted by any agency.

VI. Is the applicant requesting EPA assistance for new construction? If no, proceed to VII; if yes, answer (a) and/or (b) below.

☐ Yes ☒ No

a. If the grant is for new construction, will all new facilities or alterations to existing facilities be designed and constructed to be readily accessible to and usable by persons with disabilities? If yes, proceed to VII; if no, proceed to VI(b).

☐ Yes ☐ No

b. If the grant is for new construction and the new facilities or alterations to existing facilities will not be readily accessible to and usable by persons with disabilities, explain how a regulatory exception (40 C.F.R. 7.70) applies.

VII. Does the applicant/recipient provide initial and continuing notice that it does not discriminate on the basis of race, color, national origin, sex, age, or disability in its program or activities? (40 C.F.R. 5.140 and 7.95)

☒ Yes ☐ No

a. Do the methods of notice accommodate those with impaired vision or hearing?

☐ Yes ☒ No

b. Is the notice posted in a prominent place in the applicant's offices or facilities or, for education programs and activities, in appropriate periodicals and other written communications?

☒ Yes ☐ No

c. Does the notice identify a designated civil rights coordinator?

☐ Yes ☒ No

VIII. Does the applicant/recipient maintain demographic data on the race, color, national origin, sex, age, or handicap of the population it serves? (40 C.F.R. 7.85(a))

☒ Yes ☐ No

IX. Does the applicant/recipient have a policy/procedure for providing access to services for persons with limited English proficiency? (40 C.F.R. Part 7, E.O. 13166)

☒ Yes ☐ No

- X. If the applicant is an education program or activity, or has 15 or more employees, has it designated an employee to coordinate its compliance with 40 C.F.R. Parts 5 and 7? Provide the name, title, position, mailing address, e-mail address, fax number, and telephone number of the designated coordinator.

Yes, Patricia Hurley, Director of Washoe County Human Resources/Labor Relations, 1001 E. 9th Street Bldg A-220, Reno, NV 89512-2845. email: phurley@washoecounty.gov phone: 775-328-2087

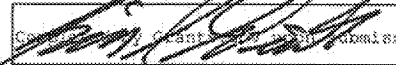
- XI. If the applicant is an education program or activity, or has 15 or more employees, has it adopted grievance procedures that assure the prompt and fair resolution of complaints that allege a violation of 40 C.F.R. Parts 5 and 7? Provide a legal citation or Internet Address for, or a copy of, the procedures.

Yes, Washoe County Human Resources, policies available at [www.washoecounty.gov/humanresources/policies/policiesguidelines.php](http://www.washoecounty.gov/humanresources/policies/policiesguidelines.php)

**For the Applicant/Recipient**

I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law. I assure that I will fully comply with all applicable civil rights statutes and EPA regulations.

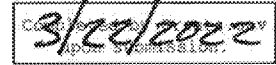
A. Signature of Authorized Official

  
Completed Grant Application Submission.

B. Title of Authorized Official

District Health Officer

C. Date

  
Completed Grant Application Submission.

**For the U.S. Environmental Protection Agency**

I have reviewed the information provided by the applicant/recipient and hereby certify that the applicant/recipient has submitted all preaward compliance information required by 40 C.F.R. Parts 5 and 7; that based on the information submitted, this application satisfies the preaward provisions of 40 C.F.R. Parts 5 and 7; and that the applicant has given assurance that it will fully comply with all applicable civil rights statutes and EPA regulations.

A. \*Signature of Authorized EPA Official

B. Title of Authorized Official

C. Date

**\* See Instructions**

Instructions for EPA FORM 4700-4 (Rev. 06/2014)

General. Recipients of Federal financial assistance from the U.S. Environmental Protection Agency must comply with the following statutes and regulations.

Title VI of the Civil Rights Acts of 1964 provides that no person in the United States shall, on the grounds of race, color, or national origin, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving Federal financial assistance. The Act goes on to explain that the statute shall not be construed to authorize action with respect to any employment practice of any employer, employment agency, or labor organization (except where the primary objective of the Federal financial assistance is to provide employment). Section 13 of the 1972 Amendments to the Federal Water Pollution Control Act provides that no person in the United States shall on the ground of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under the Federal Water Pollution Control Act, as amended. Employment discrimination on the basis of sex is prohibited in all such programs or activities. Section 504 of the Rehabilitation Act of 1973 provides that no otherwise qualified individual with a disability in the United States shall solely by reason of disability be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving Federal financial assistance. Employment discrimination on the basis of disability is prohibited in all such programs or activities. The Age Discrimination Act of 1975 provides that no person on the basis of age shall be excluded from participation under any program or activity receiving Federal financial assistance. Employment discrimination is not covered. Age discrimination in employment is prohibited by the Age Discrimination in Employment Act administered by the Equal Employment Opportunity Commission. Title IX of the Education Amendments of 1972 provides that no person in the United States on the basis of sex shall be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity receiving Federal financial assistance. Employment discrimination on the basis of sex is prohibited in all such education programs or activities. Note: an education program or activity is not limited to only those conducted by a formal institution. 40 C.F.R. Part 5 implements Title IX of the Education Amendments of 1972. 40 C.F.R. Part 7 implements Title VI of the Civil Rights Act of 1964, Section 13 of the 1972 Amendments to the Federal Water Pollution Control Act, and Section 504 of The Rehabilitation Act of 1973. The Executive Order 13166 (E.O. 13166) entitled; "Improving Access to Services for Persons with Limited English Proficiency" requires Federal agencies work to ensure that recipients of Federal financial assistance provide meaningful access to their LEP applicants and beneficiaries.

Items "Applicant" means any entity that files an application or unsolicited proposal or otherwise requests EPA assistance. 40 C.F.R. §§ 5.105, 7.25. "Recipient" means any entity, other than applicant, which will actually receive EPA assistance. 40 C.F.R. §§ 5.105, 7.25. "Civil rights lawsuits and administrative complaints" means any lawsuit or administrative complaint alleging discrimination on the basis of race, color, national origin, sex, age, or disability pending or decided against the applicant and/or entity which actually benefits from the grant, but excluding employment complaints not covered by 40 C.F.R. Parts 5 and 7. For example, if a city is the named applicant but the grant will actually benefit the Department of Sewage, civil rights lawsuits involving both the city and the Department of Sewage should be listed. "Civil rights compliance review" means any review assessing the applicant's and/or recipient's compliance with laws prohibiting discrimination on the basis of race, color, national origin, sex, age, or disability. Submit this form with the original and required copies of applications, requests for extensions, requests for increase of funds, etc. Updates of information are all that are required after the initial application submission. If any item is not relevant to the project for which assistance is requested, write "NA" for "Not Applicable." In the event applicant is uncertain about how to answer any questions, EPA program officials should be contacted for clarification. \* Note: Signature appears in the Approval Section of the EPA Comprehensive Administrative Review For Grants/Cooperative Agreements & Continuation/Supplemental Awards form.

Manifest for Grant Application # GRANT13579359

Grant Application XML file (total 1):

1. GrantApplication.xml. (size 25819 bytes)

Forms Included in Zip File(total 6):

1. Form ProjectNarrativeAttachments\_1\_2-V1.2.pdf (size 16029 bytes)

2. Form SF424\_3\_0-V3.0.pdf (size 24183 bytes)

3. Form SF424A-V1.0.pdf (size 22499 bytes)

4. Form EPA4700\_4\_3\_0-V3.0.pdf (size 23053 bytes)

5. Form OtherNarrativeAttachments\_1\_2-V1.2.pdf (size 15905 bytes)

6. Form EPA\_KeyContacts\_2\_0-V2.0.pdf (size 37287 bytes)

Attachments Included in Zip File (total 7):

1. OtherNarrativeAttachments\_1\_2 OtherNarrativeAttachments\_1\_2-Attachments-1238-WCAQMD  
EPA ARPA Monitoring Grant FY22-23 4700-4 (Signed).pdf application/pdf (size 264888  
bytes)

2. OtherNarrativeAttachments\_1\_2 OtherNarrativeAttachments\_1\_2-Attachments-1237-WCAQMD  
EPA ARPA Monitoring Grant FY22-23 SF-424 (Signed).pdf application/pdf (size 343183  
bytes)

3. ProjectNarrativeAttachments\_1\_2 ProjectNarrativeAttachments\_1\_2-Attachments-1240-  
Project Narrative (Cover Page and Workplan).pdf application/pdf (size 593324 bytes)

4. OtherNarrativeAttachments\_1\_2 OtherNarrativeAttachments\_1\_2-Attachments-1239-WCAQMD  
State Grant Notification 220308 (Completed).pdf application/pdf (size 112174 bytes)

5. OtherNarrativeAttachments\_1\_2 OtherNarrativeAttachments\_1\_2-Attachments-1236-Key  
Personnel Bios.pdf application/pdf (size 93991 bytes)

6. OtherNarrativeAttachments\_1\_2 OtherNarrativeAttachments\_1\_2-Attachments-1235-  
Partnership Letters.pdf application/pdf (size 527364 bytes)

7. OtherNarrativeAttachments\_1\_2 OtherNarrativeAttachments\_1\_2-Attachments-1234-  
Quality Assurance Statement.pdf application/pdf (size 79257 bytes)



**Washoe County School District**

425 East Ninth Street \* P.O. Box 30425 \* Reno, NV 89523-0425  
Phone (775) 348-8280 \* (775) 348-8304 \* [info@washoe.k12.nv.us](mailto:info@washoe.k12.nv.us)

Board of Trustees: Angela C. Taylor, President \* Diane Alpert, Vice President \* Allen Adair, Clerk \*  
Jeff Church \* Adam Magliery \* Jose Rodriguez \* Beth Sinker \* Kristen McNelly, Ed.D., Superintendent

03/15/2022

Mr. Francisco Vega, PE, MBA  
Director, Air Quality Management Division  
Washoe County Health District  
1001 E. Ninth Street, Building B-171  
Reno, NV 89512

Subject: Partnership and Support of AQMD's Proposal to Establish an Air Quality Monitoring Station in the West Reno, Nevada Community of Verdi

Mr. Vega:


The Washoe County School District (WCSD) supports your application entitled "Establishment of a State and Local Air Monitoring Station (SLAMS) in the Community of Verdi, Nevada" for EPA's Enhanced Air Quality Monitoring for Communities funding opportunity. An additional air monitoring station will provide valuable air quality data for the community and WCSD. We currently incorporate your air quality information in WCSD decisions such as:

- Determining how much outdoor makeup air to use to ventilate classrooms and busses per WCSD COVID-19 protocols.
- Delaying, modifying, or cancelling outdoor activities such as recess, physical education, and athletic practices and games.

We are currently collaborating with your staff to evaluate a possible monitoring station at Verdi Elementary School. This site would complement the existing station at Libby Booth Elementary School and provide a hands-on learning opportunity for the students.

Your proposal will continue our common goal to use the best information to make the best decisions to protect the health of our students and staff. Thank you for the opportunity to provide support for your proposal. Feel free to contact me at 775- 789-3859 if I can be of further assistance.

Sincerely,

  
Adam T. Searcy, P.E.  
Chief Facilities Management Officer  
Washoe County School District  
775.789.3859 office | 775.354.6007 cell



**Washoe County School District**  
Every Child. By Name And Face. To Graduation.



Certified No. 1961



U.S. DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration  
National Weather Service  
2350 Raggio Parkway  
Reno, Nevada 89512

March 10, 2022

Mr. Francisco Vega, PE, MBA  
Director, Air Quality Management Division  
Washoe County Health District  
1001 E. Ninth Street, Building B-171  
Reno, NV 89512

Subject: Partnership and Support of AQMD's Proposal to Establish an Air Quality Monitoring Station in the West Reno, Nevada Community of Verdi

Mr. Vega:

The National Weather Service Forecast Office Reno, NV (NWS) supports your application for EPA's Enhanced Air Quality Monitoring for Communities funding opportunity entitled "Establishment of a State and Local Air Monitoring Station (SLAMS) in the Community of Verdi, Nevada". An additional air monitoring station will provide valuable meteorological data to the NWS and fill a current spatial gap in the Verdi area.

Data from a Verdi monitoring station will assist the NWS with improving smoke forecasting, identifying inversions, and help with monitoring high wind events that frequent the region. While there are currently several weather stations in the Verdi area, the NWS will have strong confidence in data from an AQMD monitoring station because of your comprehensive quality assurance program.

Your proposal continues our long history of collaboration as a Weather Ready Nation Ambassador. This has resulted in providing our community with the most accurate air quality information, especially during wildfire smoke episodes. Thank you for the opportunity to provide support for your proposal.

Feel free to contact me if I can be of further assistance.

Sincerely,

A handwritten signature in cursive script that reads "Chris Smallcomb".

Chris Smallcomb  
Warning Coordination Meteorologist  
National Weather Service Forecast Office - Reno  
775.673.8106, [chris.smallcomb@noaa.gov](mailto:chris.smallcomb@noaa.gov)



## EXTENSION

College of Agriculture,  
Biotechnology & Natural Resources

March 18, 2022

Mr. Francisco Vega, PE, MBA  
Director, Washoe County Health District -Air Quality Management Division  
1001 E. Ninth Street, Building B-171  
Reno, NV 89512

Subject: Partnership and Support of AQMD's Proposal to Establish an Air Quality Monitoring Station in the West Reno, Nevada Community of Verdi

Mr. Vega:

University of Nevada, Reno Extension's Living With Fire Program supports your application entitled, "Establishment of a State and Local Air Monitoring Station (SLAMS) in the Community of Verdi, Nevada" for EPA's Enhanced Air Quality Monitoring for Communities funding opportunity. This air monitoring station will provide valuable air quality data for the community.

The mission of the Living With Fire Program is to help communities to live more safely with wildfire. The mission of University of Nevada, Reno Extension is to discover, develop, disseminate, preserve and use knowledge to strengthen the social, economic and environmental well-being of people.

We have collaborated with your staff to create a peer-reviewed publication, "Living With Wildfire Smoke". This publication was created to help residents understand wildfire smoke composition, how smoke impacts one's health, and what residents can do to reduce the impacts of smoke upon their health. This publication also directs folks to AirNow's Fire and Smoke Map to help residents to make informed choices and reduce the threat of wildfire smoke upon their health.

Your proposal will help residents to better determine the AQI and help them to live more safely with smoke. Allowing residents to live more safely will fulfill the missions of both the Living With Fire Program and University of Nevada, Reno Extension. Thank you for the opportunity to provide support for your proposal. Feel free to contact me at 775-336-0261 if I can be of further assistance.

Sincerely,

Jamie Roice-Gomes M.A., Living With Fire Program Manager  
Christina Restaino, PhD, Assistant Professor, Living With Fire Program Director  
Holly Gatzke, PhD, Northern Area Director, Extension Educator

**Northern Area Cooperative Extension**

4955 Energy Way  
Reno, NV 89502  
(775) 784-4848  
Fax (775) 784-4881  
<http://www.Extension.unr.edu>

# Enhanced Air Quality Monitoring for Communities Opportunity EPA-OAR-OAQPS-22-01

## Cover Sheet

---

**Project Title:** Establishment of a State and Local Air Monitoring Station (SLAMS) in the Community of Verdi, Nevada

**Application Information:**

Washoe County Health District, Air Quality Management Division (AQMD)  
1001 East Ninth Street, B-171  
Reno, Nevada 89512  
Francisco Vega, Division Director, 775-784-7211, [fvega@washoecounty.gov](mailto:fvega@washoecounty.gov)  
DUNS Number: 0737869980000

**Set Aside:** No Set-Aside

**Brief Description of Applicant Organization:** The AQMD is the Primary Quality Assurance Organization for the geographic area of Washoe County, Nevada and is the agency responsible for enforcing the Clean Air Act.

**Project Partners:**

- Washoe County School District
- National Weather Service Forecast Office - Reno
- University of Nevada Cooperative Extension - Living with Fire

**Project Location:** Western portion of Reno, Nevada area in the community of Verdi. The AQMD and Washoe County School District are currently collaborating on a potential location on the Verdi Elementary School campus.

**Air Pollutant Scope:** Particle Pollution (continuous PM<sub>2.5</sub>, PM<sub>10</sub>, and PM<sub>10-2.5</sub>) and Ozone

**Budget Summary:**

EPA Funding Request	Total Project Cost
\$213,204	\$213,204

**Project Period:** October 2022 through December 2023. Supply chain challenges and contractor availability may impact timelines.

**Short Project Description:** The proposed project is establishment of a new SLAMS in the western portion of Reno, Nevada to fill a spatial gap in the existing ambient air monitoring network. This area is underserved by the existing network and typically experiences the highest PM concentrations in Washoe County during interstate transport wildfire smoke episodes.

# Workplan

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## **Section 1 - Project Summary and Approach**

### 1.A. Overall Project

The proposed project is to establish a new ambient air monitoring station in the southwest portion of Washoe County, Nevada in the community of Verdi. This location will fill a spatial gap in the existing AQMD ambient air monitoring network that has been identified in the 2010, 2015, and 2020 “Ambient Air Monitoring Network Assessment”.

The Verdi site will monitor for PM (continuous PM<sub>2.5</sub>, PM<sub>10</sub>, and PM<sub>10-2.5</sub>), ozone, and meteorology (ambient temperature, wind speed, wind direction). Instrumentation selection will be consistent with existing analyzers and sensors in the AQMD network. The AQMD’s Quality Assurance Project Plan (QAPP) and Quality Management Plan (QMP) are current and most recently approved by EPA in 2019.

AQMD is requesting funding for three primary groups of expenses.

Site Preparation: After a location is identified and agreements in place, then the site must be prepared for the monitoring station. Below grade work includes trenching for electrical power and footings. Aboveground work includes security fencing, asphalt pathways, and transformer upgrades (if needed). A project manager is needed to ensure timelines are met and building permits secured.

Station Preparation: The monitoring station structure will be a converted, used shipping container. The design will be modelled after AQMD’s most recent station, Reno4 (AQS ID 32-031-0031). Additional modifications include decking, safety railing, roof-access ladder, heating/cooling units, telescoping 10-meter tower, and telemetry.

Analyzers and Sensors: The site will monitor for PM (continuous PM<sub>2.5</sub>, PM<sub>10</sub>, and PM<sub>10-2.5</sub>), and ozone. It will also collect meteorological parameters including ambient temperature, wind speed, and wind direction. Supplemental equipment includes a calibrator, zero air generator, data logger, monitor, shelter temperature sensor, security cameras, and uninterruptible power supplies.

AQMD has been planning for a monitoring site in the Verdi area for over ten years. To build capacity for a new site, existing analyzers and sites were systematically discontinued. Discontinuation of these analyzers and sites followed the requirements of 40 CFR 58.14 and were approved by EPA.

The entire process from identifying a SLAMS site location to submitting data for record to the Air Quality System (AQS) is expected to take approximately 15 months. This schedule is based on recent experience and lessons learned from establishing the Reno4

NCore station in 2018-2019. Supply chain challenges and contractor availability may impact timelines.

### 1.B. Project Significance

The increasing intensity, duration, and scale of wildfires has negatively impacted air quality in the western United States. Unlike other areas of the country, the number of days where the Air Quality Index (AQI) reached “Unhealthy for Sensitive Groups” (USG) or above has been trending upward in Washoe County since 2000, especially over the last ten years. Last year’s wildfire smoke episodes were highlighted with the highest PM<sub>2.5</sub> and PM<sub>10</sub> concentrations ever monitored in the county and 38 days where the AQI reached USG or above. The American Lung Association’s most recent “State of the Air” report gave Washoe County an “F” for particle and ozone pollution. If EPA’s December 2020 decision were to strengthen the PM NAAQS instead of retaining the standard, the 2021 statistics would have been much worse.

Knowing near real-time air quality concentrations is important for the community to make informed decisions to protect public health. The Verdi site will provide important air quality data in an area that is often impacted by wildfire smoke earlier and heavier than the Reno4 site located approximately ten miles to the east. The AQI is used during smoke events by our customers such as:

The Washoe County School District (WCSD) in determining whether to conduct or cancel outdoor activities including sporting events. They also consider AQI in their COVID-19 plans to use outdoor air to supplement air in classrooms and busses.

Local outdoor entertainment venues as part of their “go, no go” decisions. A local outdoor waterpark had to close several days in 2021 to protect their customers and staff from wildfire smoke.

Citizens to plan, modify, or cancel their outdoor activities.

The AQMD delivers air quality information through its “Keep it Clean” campaign, specifically under the “Be Smoke Smart” brand. The “Keep it Clean” campaign was recognized by EPA in 2014 with the Gregg Cook Visionary Program Award.

## **Section 2 - Community Involvement**

### 2.A. Community Partnership

A monitoring station in the Verdi area will fill a spatial gap in AQMD’s air monitoring network. The project will benefit the entire community and strengthen relationships with the following existing partners.

Washoe County School District: AQMD’s formal partnership with the WCSD began in the 1990s with establishment of the Toll (AQS ID 32-031-0025) SPM



and SLAMS on WCSD property. In 2013, AQMD successfully partnered with the WCSD to develop the Keep it Clean, Be Idle Free campaign.<sup>1</sup> This program empowers students to collect data, install signage, educate parents, and monitor behavior change. Unnecessary vehicle idling was reduced up to 63 percent.

In 2017, WCSD requested AQMD input on Board Policy 7400, “Conservation and Sustainability”. This was WCSD’s first sustainability policy and supports their decisions to incorporate energy efficiency and clean school busses into their operations.

The partnership was strengthened in 2020 as the Reno4 (32-031-0031) NCore station was constructed on the Libby Booth Elementary School campus. Coordination on this project minimized costs and disruptions at the school. AQMD received one-time CAA Section 103 financial assistance to offset much of the contractual, equipment, and supply expenses associated with this new site. COVID-19 has temporarily postponed plans to develop a hands-on air quality curriculum using the Reno4 monitoring station.

AQMD and WCSD are currently partnering on a project to deploy low-cost PM sensors at ten public schools throughout the county. AQMD is providing technical support to determine the best siting location on each campus. Data from these sensors will be used for WCSD decision support and be uploaded to the AirNow Fire and Smoke Map.

National Weather Service Forecast Office (NWS) - Reno: Weather has a strong connection to air pollution levels. AQMD is a NWS “Weather-Ready Nation Ambassador”<sup>2</sup>. This partnership began in the early 2000s focusing on wintertime temperature inversions and the Keep it Clean, Know the Code program. It also resulted in the NWS including key weather-related terms in their daily forecast discussions to indicate if conditions were favorable for improving or deteriorating air pollution levels. These key terms led to improved accuracy of burn codes and air pollution forecasts.

The NWS now includes the names of wildfires in their forecast discussions (i.e., “. . . smoke from the Dixie Fire . . .”). This provides additional weight of evidence when the AQMD prepares wildfire PM and ozone exceptional events demonstrations. An additional data point in the Verdi area will also improve NWS’s capabilities for smoke forecasting, identifying temperature inversions, and monitoring high wind events.

University of Nevada, Cooperative Extension (UNCE): UNCE’s partnerships is relatively new, but is becoming more important as the intensity, duration, and scale of wildfires is increasing in the western United States. UNCE’s Living With Fire<sup>3</sup> program is well established and recently added a Living With Wildfire Smoke component. The AQMD provided technical assistance with this component to ensure consistent messaging with the Keep it Clean, Be Smoke Smart program.

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<sup>1</sup> <https://mynews4.com/news/local/students-and-staff-combine-forces-to-create-idle-free-zones>

<sup>2</sup> <https://www.weather.gov/wrn/ambassadors>

<sup>3</sup> <https://www.livingwithfire.com/>

UNCE and AQMD have a similar goal to provide the best smoke information to the public to make the best decision to protect their health.

## 2.B. Community Engagement

Data from an air monitoring station in the Verdi area will improve air quality information for the entire region by filling a large spatial gap between Truckee, CA to the west and downtown Reno to the east. Approximately 3,000 new homes are expected to be constructed in the Verdi-area over the next 20 years. A Verdi-area data point is critical when interstate wildfire smoke is transported west to east into Washoe County.

Accurate air pollution levels (current and forecast) are critical information for the Reno/Sparks area and especially for our partners described in Subsection 2.B above. It's the foundation to make the best decisions to protect public health.

Accurate air pollution data + Keep it Clean + Partners = A Healthy Community!

## **Section 3 - Environmental Justice and Underserved Communities**

Washoe County, Nevada is downwind of California and Oregon. Much of California and Oregon is classified as “High” and “Very High” Wildfire Hazard Potential in EJScreen. An ambient air monitoring station in Verdi supports EPA’s Draft FY 2022-2026 Strategic Plan Goal 4, Objective 4.1 by building AQMD’s capacity to be Smoke Ready, especially during wildfire episodes. An additional data point in Verdi will improve forecasting capabilities as the smoke travels downwind to the Reno/Sparks area. The following two subsections describe the demographics of the Reno/Sparks area.

### Low-Income and Minority Populations

The Demographic Index in EJScreen is a combination of percent low-income and percent minority, the two demographic factors that were explicitly named in Executive Order 12898 on Environmental Justice. For each Census block group, these two numbers are simply averaged together. The formula is as follows:

$$\text{Demographic Index} = (\text{percent people of color} + \text{percent low-income}) / 2.$$

Figure 3.1 highlights the minority and low-income populations areas in the Reno/Sparks area, many of which are in the 80<sup>th</sup> percentile and greater compared to national statistics.

### Historically Underserved Communities

In the 2021 Nevada Legislative Session, Assembly Bill (AB) 349 sponsored by Assemblyman Howard Watts was passed to improve emissions from motor vehicles. It also allowed Washoe County to implement a repair and replace program targeting Historically Underserved Communities which is defined as:

(1) A census tract:

(I) Designated as a qualified census tract by the United States Secretary of Housing and Urban Development pursuant to 26 U.S.C. § 42(d)(5)(B)(ii); or

- (II) In which, in the immediately preceding census, at least 20 percent of households were not proficient in the English language;
- (2) A community in this State with at least one public school:
- (I) In which 75 percent or more of the enrolled pupils in the school are eligible for free or reduced-price lunches pursuant to 42 U.S.C. §§ 1751 et seq.; or
  - (II) That participates in universal meal service in high poverty areas pursuant to Section 104 of the Healthy, Hunger-Free Kids Act of 2010, Public Law 111-296; or
- (3) A community in this State located on qualified tribal land, as defined in NRS 370.0325.

Figure 3.2 highlights the Historically Underserved Communities in the Reno/Sparks area as defined in AB 349.

Figure 3.1 - EJScreen

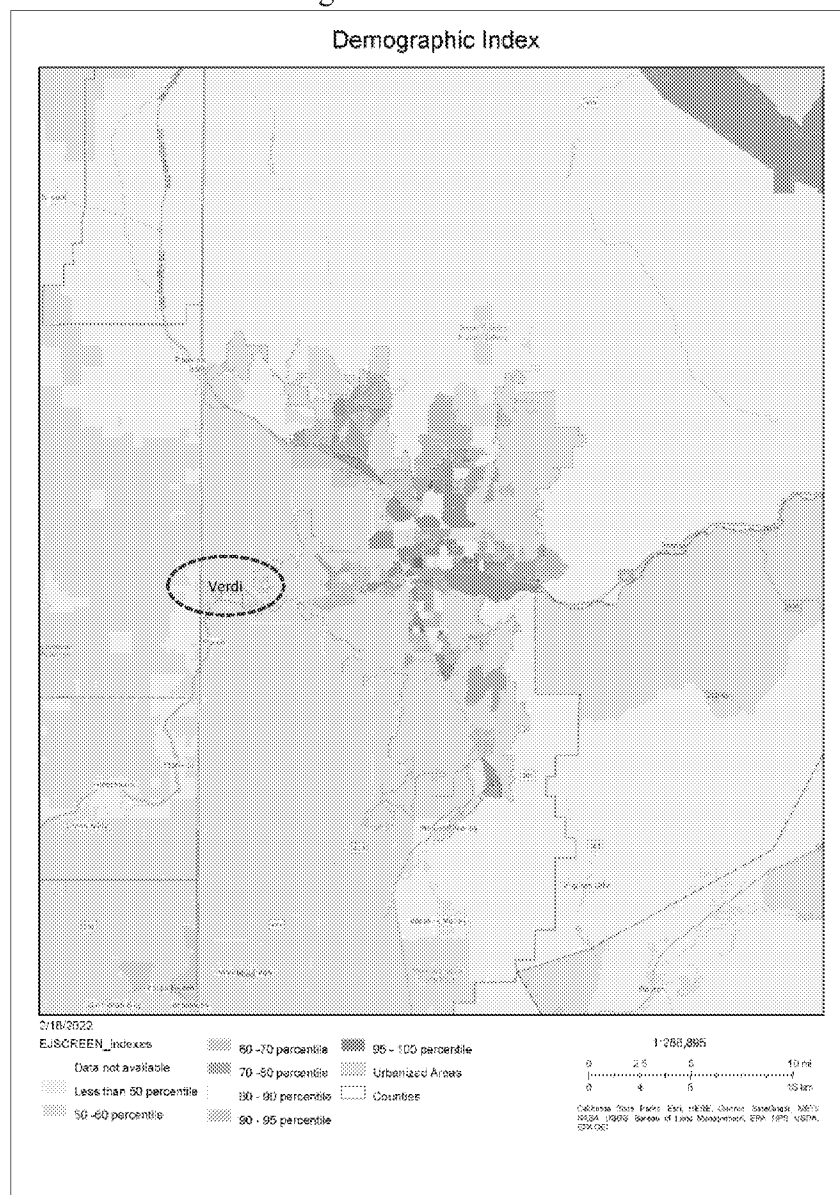
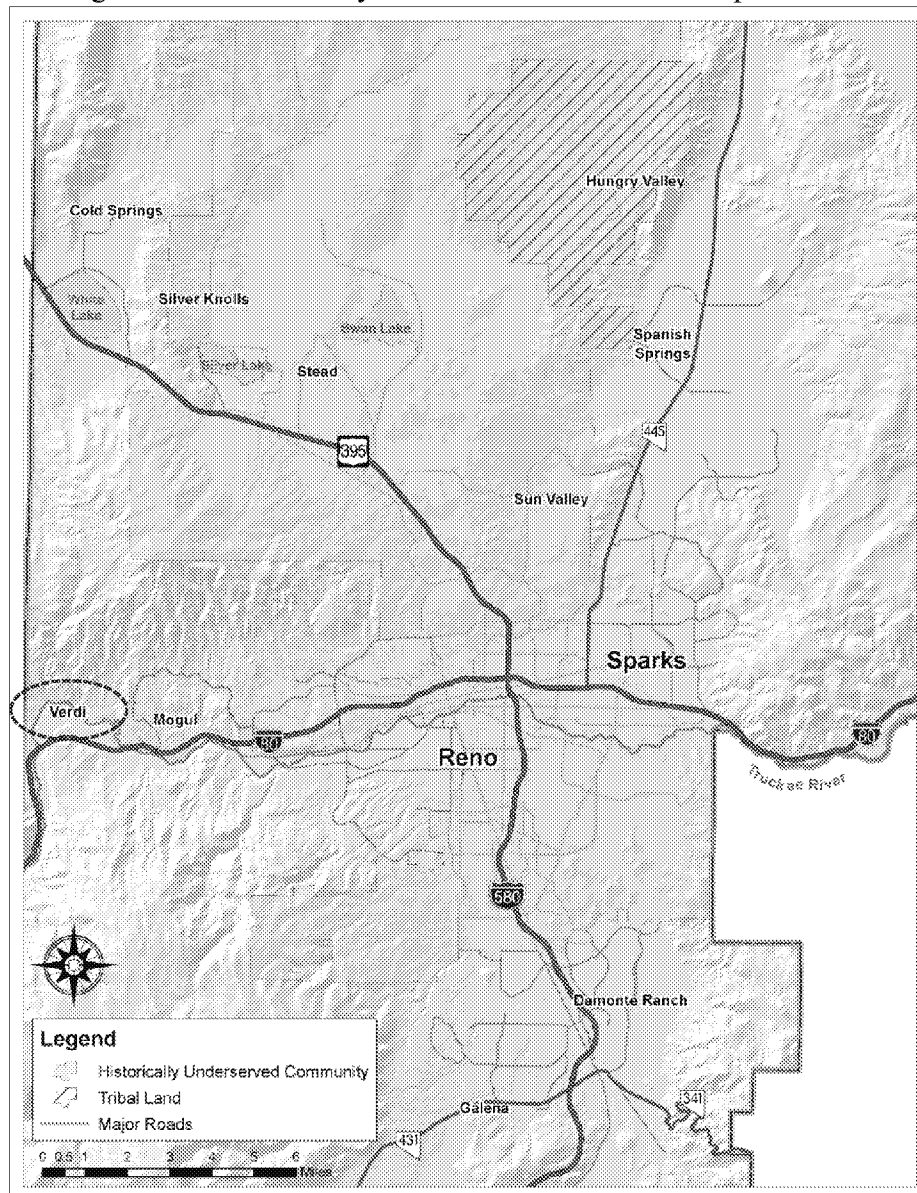


Figure 3.2 - Historically Underserved Communities per AB349



## **Section 4 - Environmental Results - Outcomes, Outputs, and Performance Measures**

### **4.A. Expected Project Outputs and Outcomes**

The proposed project will collect valuable air pollution and meteorological data. Specific outputs will include:

- PM<sub>2.5</sub>, PM<sub>10</sub>, PM<sub>10-2.5</sub>, and ozone hourly average concentrations
- Temperature, wind speed, and wind direction hourly averages

These data will be submitted hourly to AirNow.gov where they will be combined with other monitoring data from across the United States.

Change in Knowledge: AirNow converts the data into easy-to-understand information through numbers (Air Quality Index) and pictures (Fire and Smoke Map). AQMD's award winning Keep it Clean, Be Smoke Smart campaign leverages the power of local media to deliver near real-time air pollution information to the community. Be Smoke Smart answers four important questions during wildfire smoke episodes.



1. Where is the fire?
2. Where is the smoke going to be?
3. What is the current air quality? and
4. What should I do to protect myself?

Change in Behavior: Near real-time air quality information empowers the community to make the best decisions to protect their health. Following are example changes in behavior due to having the knowledge and wisdom of wildfire smoke:

- Schools canceling outdoor activities including athletic practices and games.
- Outdoor entertainment events and shows cancelled.
- Families modifying, rescheduling, or cancelling their outdoor activities.

Change in Conditions: Climate change is worsening wildfire intensity, duration, and scale in the western United States. Improving forest health will take decades to accomplish. The proposed project will not reduce wildfire smoke emissions. It will, however, make the area more resilient by increasing the community's knowledge of the best precautions to take during smoke events.

#### 4.B. Performance Measures and Plans

The AQMD will submit progress reports to EPA on a quarterly basis until completion of the cooperative agreement. Progress will be measured against the milestones in Table 4.1 in the next subsection. Expenses will be tracked and measured against the budget described in Section 7.

The Verdi site will be initially classified as Special Purpose Monitoring (SPM) in AQS. A request to reclassify the site to a SLAMS will be submitted to EPA within 18 months after data submittal to AQS begins. Performance will be tracked using data quality and capture rate metrics. A successful project will allow data from this site to be comparable to the ozone and PM NAAQS.

AQMD's Monitoring program is evaluated on a regular basis through EPA's Technical System Audit (TSA) program. The most recent TSA was conducted in 2019.

#### 4.C. Timeline and Milestones

Table 4.1 summarizes the key milestones needed to successfully complete this project. The community will begin to realize the outputs and outcomes described in Section 4.A when data are submitted to AirNow.gov (Milestone 5.2).

Table 4.1 - Timelines and Milestones

Timeline	Milestone Number	Milestone Description	Budget Line Item	Notes
Oct-Dec 2022	1.1	Approve Right of Entry agreement with property owner	---	Additional partners as needed
	1.2	Secure Project Manager	1.7	
	1.3	Finalize: 1. Station location 2. Power plan 3. Fencing plan	---	May require transformer upgrade
	1.4	Submit permit applications	1.5	City of Reno
	1.5	Submit progress report to EPA	---	Quarterly submittals until completion of cooperative agreement
Jan-Mar 2023	2.1	Secure contracts for: 1. Site and station preparation, 2. Trenching 3. Power 4. Fencing	---	
Apr-Jun 2023	3.1	Trenching, footings, anchoring	1.1	
	3.2	Install power	1.3	
	3.3	Install fencing	1.4	
	3.4	Deliver station and install: 1. Decking, 2. Safety railing 3. Roof-access ladder	2.1 - 2.6, 2.9	
	3.5	Install telescoping tower and telemetry	2.7 - 2.8	
	3.6	Install pathways	1.6	
Jul-Sep 2023	4.1	Install instrumentation	3.1 - 3.10	
	4.2	Calibrate instrumentation	---	
	4.3	Program data logger	---	
	4.4	Establish site in AQS	---	Initially SPM
	4.5	Begin routine QA	---	
Oct-Dec 2023	5.1	Begin data telemetry to AQM data management system	---	
	5.2	Begin submitting data to AirNow.gov	---	Ozone, PM, Met
	5.3	Final calibrations	---	
Jan 2024	6.1	Collected data considered data for record in AQS	---	Completion of cooperative agreement
	6.2	Submit final progress report to EPA	---	
2024	7.1	Submit request per 40 CFR 58.14 for site to be reclassified from SPM to SLAMS	---	SLAMS target date: Jan 1, 2025

## **Section 5 - Quality Assurance Statement**

The AQMD operates and maintains an ambient air monitoring network in accordance with 40 CFR 50 and 58. Quality Assurance Project Plans (QAPPs) and Quality Management Plans (QMPs) are prepared in accordance with 40 CFR 50 and 58 and were most recently approved by EPA in 2019. The QAPP identifies each staff's responsibilities to ensure separation and redundancy which results in defensible air monitoring data. It also includes a hierarchy of data review and approval, initial and continuing training requirements, and standard operating procedures.

EPA annually reviews two plans/reports as an additional check on the AQMD air monitoring program - the Annual Network Plan<sup>4</sup> and the Air Quality Trends Report.<sup>5</sup> These are both required per 40 CFR 58 and/or the QAPP.

The AQMD participates in EPA's Technical System Audit (TSA) program with the three most recent TSAs completed in 2013, 2016, and 2019. AQMD prepares a Corrective Action Plan (CAP) to address findings from the TSA. The CAP includes specific details and timelines to address each TSA finding. The next TSA is anticipated to be conducted in 2023.

These checks and balances will ensure that the Verdi monitoring station will collect high-quality, defensible air pollution data.

## **Section 6 - Programmatic Capabilities and Past Performance**

### **6.A. Past Performance**

Below are recent funding awards that the AQMD has received and successfully managed.

Clean Air Act (CAA) Section 103 and 105 Grants: The AQMD works closely with EPA Region 9 staff to ensure compliance with the awards. The CAA Section 105 workplans are developed following current EPA National Program Guidance. Examples of situations where early coordination with EPA was successfully implemented are reallocations, one-time requests, and extensions.

Nevada Department of Motor Vehicles (DMV), Pollution Control Account (PCA) - Dedicated and Excess Reserve Funds: These funds are generated from Nevada's Inspection and Maintenance (Smog Check) program. Funding is based on the number of Smog Check certificates issued in Washoe and Clark Counties.

### **6.B. Reporting Requirements**

The AQMD has successfully met annual and semi-annual reporting requirements for the awards described in Section 6.A above. CAA Section 103 and 105 grant reports are submitted to EPA Region 9. Nevada DMV PCA award reports are submitted to the Nevada DMV and cc'd to the Nevada Legislative Counsel Bureau.

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<sup>4</sup> <https://www.washoecounty.gov/health/programs-and-services/air-quality/Monitoring.php>

<sup>5</sup> <https://www.washoecounty.gov/health/programs-and-services/air-quality/air-quality-reports-and-data.php>

### 6.C. Staff Expertise

The AQMD consists of 20.5 FTE. Seven AQMD staff will be fully or partially involved with this project. Staff's extensive experience and education is summarized in Attachment A.3

Table 6.1 - Staff Expertise

Position	Years of Full or Partial Experience	
	Air Quality Management	Ambient Air Monitoring
Division Director	21 Years	5 Years
AQ Supervisor	34	24
Senior AQS*	13	13
Senior AQS	25	20
AQS	12	12
AQS	10	10
AQS Trainee	2	1

\*AQS = Air Quality Specialist

The AQMD is a member of the National Association of Clean Air Agencies (NACAA) and represented on the Criteria Pollutant, Monitoring, and Public Outreach Committees.

## **Section 7 - Budget**

### 7.A. Budget Detail

Table 7.1 summarizes the budget details by category for the proposed project. AQMD is not requesting funds for Personnel, Fringe Benefits, Travel, Construction, nor Indirect Charges. Funding request for the remaining categories is 100 percent of the estimated costs, unless noted otherwise.

Table 7.1 - Budget by Category

Object Class Category	Funding Request	Notes
1. Personnel	\$---	
2. Fringe Benefits	---	
3. Travel	---	
4. Equipment	132,439	
5. Supplies	13,718	
6. Contractual	65,484	
7. Construction	---	
8. Other	1,563	
9. Total Direct Charges (sum of 1-8)	213,204	
10. Indirect Charges	---	
Grand Total	\$213,204	

Table 7.2 on the next page provides a more detailed description of the three main groups of this request - 1) Site Preparation, 2) Station Preparation, and 3) Equipment.

Table 7.2 - Budget by Group

Group/Line Item	Funding Request	Notes
1. Site Preparation		
1.1-Trenching, Footings, Anchoring	\$23,895	Contractual
1.2-Transformer Upgrade	---	Contractual (if needed)
1.3-Electrical	7,265	Contractual
1.4-Security Fencing	12,383	Contractual
1.5-Permits	1,563	Other
1.6-Asphalt Pathways	2,000	Contractual
1.7-Project Management	19,941	Contractual
Sub-Total	\$67,047	
2. Station Preparation		
2.1-8' x 20' Shipping Container	\$22,907	Equipment
2.2-Interior Finish Work (included in 2.1)	---	---
2.3-Decking	639	Supplies
2.4-Safety Railing	1,621	Supplies
2.5-Roof Access Ladder	676	Supplies
2.6-Split Heating/Cooling Units	8,962	Equipment
2.7-10 meter Telescoping Tower	4,632	Supplies
2.8-Telemetry	250	Supplies
2.9-Miscellaneous Parts/Supplies	500	Supplies
Sub-Total	\$40,187	
3. Equipment		
3.1-Continuous PMcoarse Pair	\$42,000	Equipment
3.2-Ozone Analyzer	19,820	Equipment
3.3-Calibrator	25,000	Equipment
3.4-Zero Air Generator	5,250	Equipment
3.5-Data Logger and Monitor	8,500	Equipment
3.6-Ambient Temperature and Wind Speed/Direction Sensors	3,500	Supplies
3.7-Uninterruptible Power Supplies	500	Supplies
3.8-Shelter Temperature Sensor	400	Supplies
3.9-Security Cameras	500	Supplies
3.10-Miscellaneous Parts/Supplies	500	Supplies
Sub-Total	\$105,970	
Grand Total	\$213,204	

#### 7.B. Reasonableness of Costs

The budget details were based on actual costs to establish a new NCore monitoring station at Libby Booth Elementary School (AQS ID 32-031-0031) in 2018-2019. Data for record submittal to AQS began January 1, 2020.

#### 7.C. Expenditure of Awarded Funds

AQMD anticipates utilizing a Project Manager to keep this project on track to meet the milestones detailed in Section 4 of this application.